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Jawaharlal Nehru

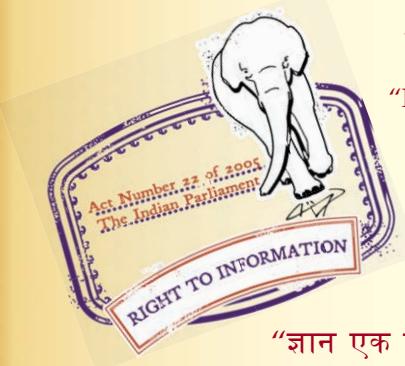
“Step Out From the Old to the New”

IS 5005 (1968): Burnisher, Dental, No. Brn 1/2 [MHD 8:
Dentistry]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

Invent a New India Using Knowledge



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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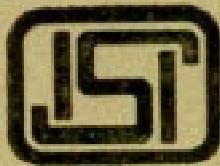


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IS : 5005 - 1968

Indian Standard
SPECIFICATION FOR
BURNISHER, DENTAL, NO. BRN 1/2

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INDIAN STANDARDS INSTITUTION
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Indian Standard

SPECIFICATION FOR BURNISHER, DENTAL, NO. BRN 1/2

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Indian Standard

SPECIFICATION FOR BURNISHER, DENTAL, NO. BRN 1/2

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 27 December 1968, after the draft finalized by the Dental Instruments Sectional Committee had been approved by the Consumer Products Division Council.

0.2 This standard is one of a series of Indian Standards on dental cutting and filling instruments and has been formulated at the instance of the Advisory Committee for Development of Surgical Instruments, Equipment and Appliances, Government of India. Other standards published so far in the series are given on P 6.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2 - 1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies the requirements of dental burnisher No. BRN 1/2.

2. MATERIAL

2.1 The instrument shall be made of stainless steel conforming to Designation 30Cr13 of Schedule V of IS :1570-1961† or carbon steel conforming to Designation T50 of Schedule VI of IS : 1570 - 1961 †.

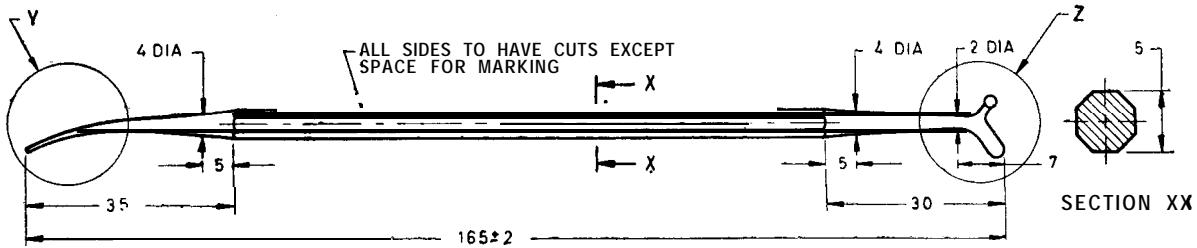
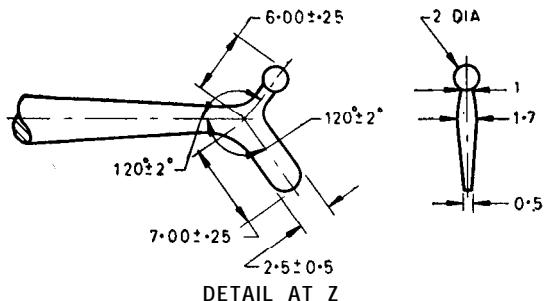
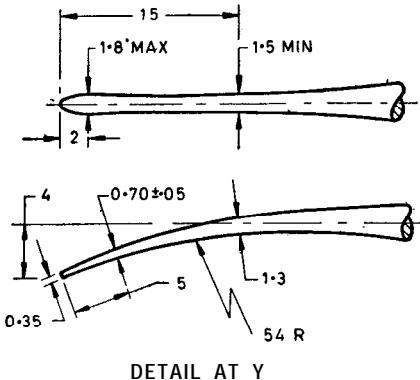
3. SHAPE AND DIMENSIONS

3.1 The instrument shall conform to shape and dimensions as given in Fig. 1.

*Rules for rounding off numerical values (revised).

†Schedules for wrought steel for general engineering purposes.

3



All dimensions in millimetres.

FIG. 1 BURNISHER, DENTAL, No. BRN 1/2

3.2 Handle — The requirements **prescribed in 3.3 of IS: 3887-1966*** shall apply.

4. WORKMANSHIP AND FINISH

4.1 The working ends of the instrument shall be rounded and shall be free from burrs.

4.2 The instrument made of stainless steel shall be suitably passivated and finished bright all over. Carbon steel instruments shall be plated chromium over nickel and the plating shall conform to Service Grade No. 2 of IS: 1068 -1968†.

5. HEAT TREATMENT

5.1 The stainless steel instrument shall be uniformly hardened and tempered to 370 to 400 **HV**. In case of carbon steel instrument only the working ends shall be hardened and tempered to 400 to 470 **HV**.

6. TESTS

6.1 Practical Test — The working ends of the instrument shall be applied to the top of a compression balance at an angle of 20° approximately. Gripping the handle about the middle of its length, a force of 3 kgf shall be applied for 30 seconds. On release of force, the instrument shall show no sign of damage or a permanent set.

6.2 Test for Corrosion Resistance — The stainless steel instrument shall be tested for corrosion resistance as given in 6.2.1.

6.2.1 Copper Sulphate Test — The instrument shall be scrubbed with the soap and warm water, rinsed in hot water followed by a dip in ethyl alcohol (9.5 percent) and dried. The instrument shall be completely immersed in copper sulphate solution at room temperature for 6 minutes and then washed with fresh water or wiped with wet cotton wool. The copper sulphate solution shall be made up as follows:

Copper sulphate (CuSO ₄ .5H ₂ O)	4·0 g
Sulphuric acid (H ₂ SO ₄) (sp gr 1·84)	10·0 g
Water (H ₂ O)	90·0 ml

There shall be no red stains or spots on the instrument after the test, but the polished surface becoming dull may be permitted.

*General requirements for cutting type dental instruments.

†Specification for electroplated coatings of nickel and chromium on iron and steel (*first revision*).

7. MARKING

7.1 The space on the handle shall be marked with the number of instrument, manufacturer's name, initials or trade-mark and the country of manufacture. In case of instruments made of stainless steel, letters, 'SS' shall also be marked on the handle.

7.1.1 Each instrument may also be marked with the ISI Certification Mark.

NOTE — The use of the IS1 Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. Presence of this mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard, under a well-defined system of inspection, testing and quality control during production. This system, which is devised and supervised by ISI and operated by the producer, has the further safeguard that the products as actually marketed are continuously checked by ISI for conformity to the standard. Details of conditions, under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

8. PACKING

8.1 The packing shall conform to 7.1 of IS :3887-1966*.

*General requirements for cutting type dental instruments.

I N D I A N S T A N D A R D S
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*5017-1968 Carvers, dental, No. CAR 1/2, 3/4 and 5/6	

*Under print.

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